

Derwent International Patent Family File

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BULK OR SOLN. POLYMERISATION OF VINYL MONOMERS - IN BACK-MIXED REACTOR CONTG. TUBE  
BUNDLE HEAT EXCHANGER

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Abstract: EP 519266 B

A process for the mass or solution polymerisation of vinyl monomers in an essentially back-mixed reaction apparatus which is in the form of a through-circulation reactor at from 80 to 200 deg. C, wherein a part of the through-circulation reactor which holds at least 50% of the circulating material is in the form of a tube-bundle reactor and the individual tubes of the reactor are dimensioned such that the following process conditions result: the temperature difference between individual tube axis and coolant, measured in each case in the same section of the reactor, is not more than 16.5 K, or the temperature difference between coolant inlet and reaction mixture outlet (in the case of concurrent operation) is not more than about 20 K, the residence time is from 5 to 20 times the circulation time and the final viscosity of the reaction mixture is less than 750 Pa.s.

Title Terms: BULK; SOLUTION; POLYMERISE; VINYL; MONOMER; BACK; MIX; REACTOR; CONTAIN; TUBE; BUNDLE; HEAT; EXCHANGE

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